Project Name: **Heavy Shop Equipment Replacement Program**

Standing Policy Committee: Infrastructure Renewal and Public Works
Dept ID: 420755 Investment Driver: Maintain
Department: **Transit** Service: Public Transit
Project: 4210010619 **OurWinnipeg:** Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,805	-	-	-	-	-	-	1,805
Financed by:									
Cash to Capital		928						-	928
Public Transit Infrastructure Fund (Federal Government)		877						-	877

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,805	-	-	-	-	-	-	1,805
Financed by:								
Cash to Capital	928							928
Public Transit Infrastructure Fund (Federal Government)	877							877

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	928		
Total Direct Costs	928	-	-
Less: Incremental Revenue/Recovery	40	-	-
Net Cost/(Benefit)	888	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

The Heavy Shop Equipment Replacement Program will replace several of Transit's outdated and aged equipment in the maintenance shop. This will minimize equipment and bus downtime, save money on expensive custom parts, and ensure buses are available for service in a timely manner.

Includes 0.33 temporary capital funded Full-time Equivalent (FTE) position beginning in 2019 (Project Manager). This is a shared position between the Rapid Overhead Doors at Washrack Project, Heavy Shop Equipment Replacement Program, and the Hoist Replacement at Fort Rouge Garage Project.

This project has been impacted by the allocation of federal funding from the Public Transit Infrastructure Fund program (PTIF - 1070). On April 12, 2018 the Federal government approved the re-application for this project. There is a request to Council to authorize expenditures of up to $1.805 million in 2018 or prior to the adoption of the 2019 capital budget as a first charge against the Transit System Fund and/or other authorized funding sources as determined by the Chief Financial Officer to facilitate timely work on the project.

Project Name: **Rapid Overhead Doors at Washrack**

Standing Policy Committee: Infrastructure Renewal and Public Works
Dept ID: 420755 Investment Driver: Maintain
Department: **Transit** Service: Public Transit
Project: 4210010519 **OurWinnipeg:** Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	600	-	-	-	-	-	-	600
Financed by:									
Cash to Capital		350						-	350
Public Transit Infrastructure Fund (Federal Government)		250						-	250

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	600	-	-	-	-	-	-	600
Financed by:								
Cash to Capital	350		-	-	-	-		350
Public Transit Infrastructure Fund (Federal Government)	250							250

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	350		
Total Direct Costs	350	-	-
Less: Incremental Revenue/Recovery	14		
Net Cost/(Benefit)	336	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

This project is for the replacement of failing overhead doors on track servicing bays with more energy efficient fast operating doors to reduce heat loss.

Includes 0.33 temporary capital funded Full-time Equivalent (FTE) position beginning in 2019 (Project Manager). This is a shared position between the Rapid Overhead Doors at Washrack Project, Heavy Shop Equipment Replacement Program, and the Hoist Replacement at Fort Rouge Garage Project.

This project has been impacted by the allocation of federal funding from the Public Transit Infrastructure Fund program (PTIF - 1048). On April 12, 2018 the Federal government approved the re-application for this project. There is a request to Council to authorize expenditures of up to $600,000 in 2018 or prior to the adoption of the 2019 capital budget as a first charge against the Transit System Fund and/or other authorized funding sources as determined by the Chief Financial Officer to facilitate timely work on the project.

Project Name: **Hoist Replacement at Fort Rouge Garage**

Standing Policy Committee: Infrastructure Renewal and Public Works
Dept ID: 420755 Investment Driver: Maintain
Department: **Transit** Service: Public Transit
Project: 4210010419 **OurWinnipeg:** Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,400	-	-	-	-	-	-	1,400
Financed by:									
Cash to Capital		750						-	750
Public Transit Infrastructure Fund (Federal Government)		650						-	650

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,400	-	-	-	-	-	-	1,400
Financed by:								
Cash to Capital	750		-	-	-	-		750
Public Transit Infrastructure Fund (Federal Government)	650							650

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	750		
Total Direct Costs	750	-	-
Less: Incremental Revenue/Recovery	32		
Net Cost/(Benefit)	718	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

All 39 in-ground hoists found in the Fort Rouge Garage maintenance shop require replacement mainly due to deterioration and age, inefficient and outdated designs, and to ensure compliance with new hoist codes and standards.

Includes 0.33 temporary capital funded Full-time Equivalent (FTE) position beginning in 2019 (Project Manager). This is a shared position between the Rapid Overhead Doors at Washrack Project, Heavy Shop Equipment Replacement Program, and the Hoist Replacement at Fort Rouge Garage Project.

This project has been impacted by the allocation of federal funding from the Public Transit Infrastructure Fund program (PTIF - 1053). On April 12, 2018 the Federal government approved the re-application for this project. There is a request to Council to authorize expenditures of up to $1.400 million in 2018 or prior to the adoption of the 2019 capital budget as a first charge against the Transit System Fund and/or other authorized funding sources as determined by the Chief Financial Officer to facilitate timely work on the project.

Project Name: **Garage Improvements - Phase 2**

Standing Policy: Infrastructure Renewal and Public Works
Dept ID: 420755
Department: **Transit**
Project: 4210010319

Investment Driver: Maintain
Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	1,500						-	1,500
Financed by:									
Cash to Capital		750						-	750
Public Transit Infrastructure Fund (Federal Government)		750						-	750

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,500	-	-	-	-	-	-	1,500
Financed by:								
Cash to Capital	750	-	-	-	-	-		750
Public Transit Infrastructure Fund (Federal Government)	750							750

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	750		
Total Direct Costs	750	-	-
Less: Incremental Revenue/Recovery	33		
Net Cost/(Benefit)	717	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Note: Any surplus funds will automatically be transferred to the following year's Transit Building Roof Replacement and Ventilation Upgrade project budget.

Transit's Fort Rouge Garage (FRG) at 421 Osborne Street includes two major buildings that total approximately 480,000 square feet in area. The buildings were constructed in 1969 and 1978 and house over 70% of Transit's bus inventory. The buildings were originally equipped with four-ply asphalt built-up roof systems (BUR), however the roofs are now at the end of their economic and useful lives and need to be replaced.

The FRG storage and maintenance facilities require replacement of the existing ventilation systems, which includes makeup air units and exhaust fans, in response to a regulatory change in allowable levels of airborne nitrogen dioxide (NO2) in diesel exhaust, age and inefficiency of equipment, and pressure imbalances throughout the buildings.

The breakdown between roof and ventilation work is subject to change, but estimated as:

Project (in $000s)	**2019**
Fort Rouge Garage Roof Replacement	500
Upgrade Garage Ventilation Systems	1,000
	1,500

This project has been impacted by the allocation of federal funding from the Public Transit Infrastructure Fund program (PTIF - 1084). On April 12, 2018 the Federal government approved the re-application for this project. There is a request to Council to authorize expenditures of up to $1.500 million in 2018 or prior to the adoption of the 2019 capital budget as a first charge against the Transit System Fund and/or other authorized funding sources as determined by the Chief Financial Officer to facilitate timely work on the project.

Project Name: **Garage Improvements - Phase 1 (Part of the Transit Building Roof Replacement and Ventilation Upgrade Program)**

Standing Policy: Infrastructure Renewal and Public Works
Dept ID: 420755
Department: **Transit**
Project: 4210010219

Investment Driver: Maintain
Service: Public Transit
OurWinnipeg: Environment

AUTHORIZATION	Previous Budgets	2019 Estimate	FORECAST 2020	2021	2022	2023	2024	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	3,850	1,750						-	1,750
Financed by:									
Cash to Capital		438						-	438
Public Transit Infrastructure Fund (Federal Government)		875						-	875
Public Transit Infrastructure Fund (Provincial Government)		437						-	437

CASH FLOW	2019	2020	2021	2022	2023	2024	Beyond 2024	Total
Project Costs ($000's)	1,750	-	-	-	-	-	-	1,750
Financed by:								
Cash to Capital	438	-	-	-	-	-		438
Public Transit Infrastructure Fund (Federal Government)	875							875
Public Transit Infrastructure Fund (Provincial Government)	437							437

NET OPERATING IMPACT ($000's)	2019	2020	2021
Operating costs			
Debt and finance charges			
Transfer to General Capital Fund	438		
Total Direct Costs	438	-	-
Less: Incremental Revenue/Recovery	30		
Net Cost/(Benefit)	408	-	-
Incremental Full Time Equivalent Positions	-	-	-

Class Estimate: Not applicable, as this is a scalable program

Note: Any surplus funds will automatically be transferred to the following year's Transit Building Roof Replacement and Ventilation Upgrade project budget.

Transit's Fort Rouge Garage (FRG) at 421 Osborne Street includes two major buildings that total approximately 480,000 square feet in area. The buildings were constructed in 1969 and 1978 and house over 70% of Transit's bus inventory. The buildings were originally equipped with four-ply asphalt built-up roof systems (BUR), however the roofs are now at the end of their economic and useful lives and need to be replaced.

The FRG storage and maintenance facilities require replacement of the existing ventilation systems, which includes makeup air units and exhaust fans, in response to a regulatory change in allowable levels of airborne nitrogen dioxide (NO2) in diesel exhaust, age and inefficiency of equipment, and pressure imbalances throughout the buildings.

The breakdown between roof and ventilation work is subject to change, but estimated as:

Project (in $000s)	**2019**
Fort Rouge Garage Roof Replacement	650
Upgrade Garage Ventilation Systems	1,100
	1,750

This project has been impacted by the allocation of federal funding from the Public Transit Infrastructure Fund program (PTIF - 0004). On April 12, 2018 the Federal government approved the re-application for this project. There is a request to Council to authorize expenditures of up to $1.750 million in 2018 or prior to the adoption of the 2019 capital budget as a first charge against the Transit System Fund and/or other authorized funding sources as determined by the Chief Financial Officer to facilitate timely work on the project.